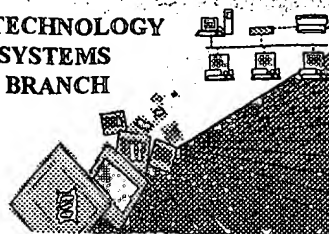


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



#28  
1-29-03  
AD

RAW SEQUENCE LISTING  
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,091C  
Source: 1/29/2003  
Date Processed by STIC: 1/29/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/424,091C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence
- 11      Use of <220>      Sequence(s) 1-2 missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1600

## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:39

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

2 <110> APPLICANT: Richard Andrew Kay  
 W--> 3 <120> TITLE OF INVENTION: Immunological method  
 W--> 4 <130> FILE REFERENCE: DUNW/P19095US  
 W--> 5 <140> CURRENT APPLICATION NUMBER: 09/424091C  
 C--> 6 <141> CURRENT FILING DATE: 2000-02-23  
 7 <150> PRIOR APPLICATION NUMBER: GB 9710820.3  
 W--> 8 <151> PRIOR FILING DATE: 27 May 1997 1997-05-27  
 W--> 9 <160> NUMBER OF SEQ ID: 47  
 10 <170> SOFTWARE: SeqWin99  
 W--> 11 <210> SEQ ID NO: 1  
 12 <211> LENGTH: 20  
 13 <212> TYPE: DNA  
 14 <213> ORGANISM: Artificial Sequence  
 W--> 15 ~~<220> FEATURE:~~  
 16 <223> OTHER INFORMATION: *see item 11 on Error Summary Sheet*  
 W--> 17 <400> SEQUENCE: 1  
 18 catcagaagc agagatctcc 20  
 19 <210> SEQ ID NO: 2  
 20 <211> LENGTH: 20  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial Sequence  
 W--> 23 ~~<220> FEATURE:~~  
 24 <223> OTHER INFORMATION: *see item 11*  
 W--> 25 <400> SEQUENCE: 2  
 26 gatgtcaagc tggctcgagaa 20  
 27 <210> SEQ ID NO: 3  
 28 <211> LENGTH: 18  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Artificial Sequence  
 W--> 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: 5' PCR Primer  
 W--> 33 <400> SEQUENCE: 3  
 34 ctgaggtgca actactca 18  
 35 <210> SEQ ID NO: 4  
 36 <211> LENGTH: 24  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 W--> 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: 5' PCR Primer  
 W--> 41 <400> SEQUENCE: 4  
 42 gtgttccag agggagccat tgcc 24  
 43 <210> SEQ ID NO: 5  
 44 <211> LENGTH: 21

*P. 1*  
 Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091C

DATE: 01/29/2003

TIME: 13:06:39

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

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45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
W--> 47 <220> FEATURE:
48 <223> OTHER INFORMATION: 5' PCR Primer
W--> 49 <400> SEQUENCE: 5
50 ggtgaacagt caacagggag a 21
51 <210> SEQ ID NO: 6
52 <211> LENGTH: 21
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
W--> 55 <220> FEATURE:
56 <223> OTHER INFORMATION: 5' PCR Primer
W--> 57 <400> SEQUENCE: 6
58 acaagcatta ctgtactcct a 21
59 <210> SEQ ID NO: 7
60 <211> LENGTH: 18
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
W--> 63 <220> FEATURE:
64 <223> OTHER INFORMATION: 5' PCR Primer
W--> 65 <400> SEQUENCE: 7
66 ggccctgaac attcagga 18
67 <210> SEQ ID NO: 8
68 <211> LENGTH: 20
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
W--> 71 <220> FEATURE:
72 <223> OTHER INFORMATION: 5' PCR Primer
W--> 73 <400> SEQUENCE: 8
74 gtcactttct agcctgctga 20
75 <210> SEQ ID NO: 9
76 <211> LENGTH: 21
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
W--> 79 <220> FEATURE:
80 <223> OTHER INFORMATION: 5' PCR Primer
W--> 81 <400> SEQUENCE: 9
82 aggagccatt gtccagataa a 21
83 <210> SEQ ID NO: 10
84 <211> LENGTH: 22
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
W--> 87 <220> FEATURE:
88 <223> OTHER INFORMATION: 5' PCR Primer
W--> 89 <400> SEQUENCE: 10
90 ggagagaatg tggagcagca tc 22
91 <210> SEQ ID NO: 11
92 <211> LENGTH: 21
93 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:39

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

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94 <213> ORGANISM: Artificial Sequence
W--> 95 <220> FEATURE:
96 <223> OTHER INFORMATION: 5' PCR Primer
W--> 97 <400> SEQUENCE: 11
98 atctcagtgcttggtgataat a 21
99 <210> SEQ ID NO: 12
100 <211> LENGTH: 24
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
W--> 103 <220> FEATURE:
104 <223> OTHER INFORMATION: 5' PCR Primer
W--> 105 <400> SEQUENCE: 12
106 acccagctgg tggagcagag ccct 24
107 <210> SEQ ID NO: 13
108 <211> LENGTH: 21
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
W--> 111 <220> FEATURE:
112 <223> OTHER INFORMATION: 5' PCR Primer
W--> 113 <400> SEQUENCE: 13
114 agaaagcaag gaccaagtgt t 21
115 <210> SEQ ID NO: 14
116 <211> LENGTH: 24
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
W--> 119 <220> FEATURE:
120 <223> OTHER INFORMATION: 5' PCR Primer
W--> 121 <400> SEQUENCE: 14
122 cagaaggtaa ctcaagcgca gact 24
123 <210> SEQ ID NO: 15
124 <211> LENGTH: 19
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
W--> 127 <220> FEATURE:
128 <223> OTHER INFORMATION: 5' PCR Primer
W--> 129 <400> SEQUENCE: 15
130 gcttatgaga acactgcgt 19
131 <210> SEQ ID NO: 16
132 <211> LENGTH: 20
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
W--> 135 <220> FEATURE:
136 <223> OTHER INFORMATION: 5' PCR Primer
W--> 137 <400> SEQUENCE: 16
138 gcagcttccc ttccagcaat 20
139 <210> SEQ ID NO: 17
140 <211> LENGTH: 20
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:39

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

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W--> 143 <220> FEATURE:
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W--> 145 <400> SEQUENCE: 17
      146 agaacctgac tgcccaggaa                20
      147 <210> SEQ ID NO: 18
      148 <211> LENGTH: 21
      149 <212> TYPE: DNA
      150 <213> ORGANISM: Artificial Sequence
W--> 151 <220> FEATURE:
      152 <223> OTHER INFORMATION: 5' PCR Primer
W--> 153 <400> SEQUENCE: 18
      154 catctccatg gactcatatg a                21
      155 <210> SEQ ID NO: 19
      156 <211> LENGTH: 19
      157 <212> TYPE: DNA
      158 <213> ORGANISM: Artificial Sequence
W--> 159 <220> FEATURE:
      160 <223> OTHER INFORMATION: 5' PCR Primer
W--> 161 <400> SEQUENCE: 19
      162 gactatacta acagcatgt                19
      163 <210> SEQ ID NO: 20
      164 <211> LENGTH: 18
      165 <212> TYPE: DNA
      166 <213> ORGANISM: Artificial Sequence
W--> 167 <220> FEATURE:
      168 <223> OTHER INFORMATION: 5' PCR Primer
W--> 169 <400> SEQUENCE: 20
      170 tgtcaggcaa tgacaagg                18
      171 <210> SEQ ID NO: 21
      172 <211> LENGTH: 26
      173 <212> TYPE: DNA
      174 <213> ORGANISM: Artificial Sequence
W--> 175 <220> FEATURE:
      176 <223> OTHER INFORMATION: Antisense 3' PCR primer
W--> 177 <400> SEQUENCE: 21
      178 aataggtcga gacacttgtc actgga                26
      179 <210> SEQ ID NO: 22
      180 <211> LENGTH: 29
      181 <212> TYPE: DNA
      182 <213> ORGANISM: Artificial Sequence
W--> 183 <220> FEATURE:
      184 <223> OTHER INFORMATION: Antisense mid PCR primer
W--> 185 <400> SEQUENCE: 22
      186 cttgtcactg gatttagatc tctcagctg.                29
      187 <210> SEQ ID NO: 23
      188 <211> LENGTH: 30
      189 <212> TYPE: DNA
      190 <213> ORGANISM: Artificial Sequence
W--> 191 <220> FEATURE:

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## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:39

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

```

192 <223> OTHER INFORMATION: Antisense 5' PCR primer
W--> 193 <400> SEQUENCE: 23
194 gtacacggca gggtcagggt tctggatatt 30
195 <210> SEQ ID NO: 24
196 <211> LENGTH: 30
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
W--> 199 <220> FEATURE:
200 <223> OTHER INFORMATION: 5' PCR Primer
W--> 201 <400> SEQUENCE: 24
202 aagagagagc aaaaggaaac attcttgaac 30
203 <210> SEQ ID NO: 25
204 <211> LENGTH: 30
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
W--> 207 <220> FEATURE:
208 <223> OTHER INFORMATION: 5' PCR Primer
W--> 209 <400> SEQUENCE: 25
210 gctgcaaggc cacatacgag caaggcgtcg 30
211 <210> SEQ ID NO: 26
212 <211> LENGTH: 30
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
W--> 215 <220> FEATURE:
216 <223> OTHER INFORMATION: 5' PCR Primer
W--> 217 <400> SEQUENCE: 26
218 aaaatgaaag aaaaaggaga tattcctgag 30
219 <210> SEQ ID NO: 27
220 <211> LENGTH: 30
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
W--> 223 <220> FEATURE:
224 <223> OTHER INFORMATION: 5' PCR Primer
W--> 225 <400> SEQUENCE: 27
226 ctgaggccac atatgagagt ggatttgtca 30
227 <210> SEQ ID NO: 28
228 <211> LENGTH: 30
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
W--> 231 <220> FEATURE:
232 <223> OTHER INFORMATION: 5' PCR Primer
W--> 233 <400> SEQUENCE: 28
234 cagagaaaca aaggaaactt ccctggtcga 30
235 <210> SEQ ID NO: 29
236 <211> LENGTH: 30
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
W--> 239 <220> FEATURE:
240 <223> OTHER INFORMATION: 5' PCR Primer

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## VERIFICATION SUMMARY

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:40

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier  
L:4 M:283 W: Missing Blank Line separator, <130> field identifier  
L:5 M:283 W: Missing Blank Line separator, <140> field identifier  
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:8 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:9 M:283 W: Missing Blank Line separator, <160> field identifier  
L:11 M:283 W: Missing Blank Line separator, <210> field identifier  
L:15 M:283 W: Missing Blank Line separator, <220> field identifier  
L:17 M:283 W: Missing Blank Line separator, <400> field identifier  
L:17 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:16  
L:23 M:283 W: Missing Blank Line separator, <220> field identifier  
L:25 M:283 W: Missing Blank Line separator, <400> field identifier  
L:25 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:24  
L:31 M:283 W: Missing Blank Line separator, <220> field identifier  
L:33 M:283 W: Missing Blank Line separator, <400> field identifier  
L:39 M:283 W: Missing Blank Line separator, <220> field identifier  
L:41 M:283 W: Missing Blank Line separator, <400> field identifier  
L:47 M:283 W: Missing Blank Line separator, <220> field identifier  
L:49 M:283 W: Missing Blank Line separator, <400> field identifier  
L:55 M:283 W: Missing Blank Line separator, <220> field identifier  
L:57 M:283 W: Missing Blank Line separator, <400> field identifier  
L:63 M:283 W: Missing Blank Line separator, <220> field identifier  
L:65 M:283 W: Missing Blank Line separator, <400> field identifier  
L:71 M:283 W: Missing Blank Line separator, <220> field identifier  
L:73 M:283 W: Missing Blank Line separator, <400> field identifier  
L:79 M:283 W: Missing Blank Line separator, <220> field identifier  
L:81 M:283 W: Missing Blank Line separator, <400> field identifier  
L:87 M:283 W: Missing Blank Line separator, <220> field identifier  
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L:95 M:283 W: Missing Blank Line separator, <220> field identifier  
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L:103 M:283 W: Missing Blank Line separator, <220> field identifier  
L:105 M:283 W: Missing Blank Line separator, <400> field identifier  
L:111 M:283 W: Missing Blank Line separator, <220> field identifier  
L:113 M:283 W: Missing Blank Line separator, <400> field identifier  
L:119 M:283 W: Missing Blank Line separator, <220> field identifier  
L:121 M:283 W: Missing Blank Line separator, <400> field identifier  
L:127 M:283 W: Missing Blank Line separator, <220> field identifier  
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L:135 M:283 W: Missing Blank Line separator, <220> field identifier  
L:137 M:283 W: Missing Blank Line separator, <400> field identifier  
L:143 M:283 W: Missing Blank Line separator, <220> field identifier  
L:145 M:283 W: Missing Blank Line separator, <400> field identifier  
L:151 M:283 W: Missing Blank Line separator, <220> field identifier  
L:153 M:283 W: Missing Blank Line separator, <400> field identifier  
L:159 M:283 W: Missing Blank Line separator, <220> field identifier  
L:161 M:283 W: Missing Blank Line separator, <400> field identifier  
L:167 M:283 W: Missing Blank Line separator, <220> field identifier



## VERIFICATION SUMMARY

DATE: 01/29/2003

PATENT APPLICATION: US/09/424,091C

TIME: 13:06:40

Input Set : A:\#332459 v1 - 350013-66 Corrected Sequence Listing.txt

Output Set: N:\CRF4\01292003\I424091C.raw

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L:175 M:283 W: Missing Blank Line separator, <220> field identifier  
L:177 M:283 W: Missing Blank Line separator, <400> field identifier  
L:183 M:283 W: Missing Blank Line separator, <220> field identifier  
L:185 M:283 W: Missing Blank Line separator, <400> field identifier  
L:191 M:283 W: Missing Blank Line separator, <220> field identifier